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Evening Session

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1	U. S. NUCLEAR REGULATORY COMMISSION
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3	DONALD C. COOK NUCLEAR PLANT
4	UNITS 1 AND 2
5	PUBLIC MEETING TO DISCUSS
6	THE SUPPLEMENTAL ENVIRONMENTAL IMPACT
7	STATEMENT FOR LICENSE RENEWAL
8	+ + + +
9	PUBLIC MEETING - EVENING SESSION
10	+ + + +
11	TUESDAY
12	NOVEMBER 9, 2004
13	+ + + +
14	BRIDGMAN, MICHIGAN
15	+ + + +
16	The meeting was held at 7:00 p.m., at the
17	Lake Charter Township Hall, 3220 Shawnee Road,
18	Bridgman, Michigan. Chip Cameron, Facilitator,
19	presiding.
20	PRESENTERS:
21	Andy Kugler
22	William Dam
23	Bob Palla
24	Kirk LaGory
25	

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P-R-O-C-E-E-D-I-N-G-S

FACILITATOR CAMERON: If everybody could take a seat, we'll get started with - - with today's meeting. Good evening, everyone. My name is Chip Cameron and I'm the Special Counsel for Public Liaison at the United Stated Nuclear Regulatory Commission and it's my pleasure to welcome you all to the NRC's public meeting tonight. And the subject of the meeting is going to focus on the draft Environmental Impact Statement that the NRC has prepared to help us in our evaluation of an application that we received from Indiana Michigan Power Company to renew the operating licenses at the D.C. Cook Plant for both Units One and Two at D.C. Cook.

And I'm going to be your facilitator tonight, and I will just try to help all of you to have a productive meeting this evening. I just want to cover a couple of things about meeting process before we go on to the substance of today's discussion.

First of all, our format for the meeting is basically going to be a two-part format. In the first part of the meeting, we're going to give you some background information on the NRC's license

renewal evaluation process and specifically, on the findings and conclusions in the draft Environmental Impact Statement that we prepared. And we'll go out to you for any questions that you might have about that.

Before we get into the second part of the meeting, which is to give us an opportunity to hear from all of you in terms of any advice, recommendations, concerns that you might want to express to us about the draft Environmental Impact Statement. As the NRC staff will tell you, we are taking written comments on the draft Environmental Impact Statement, but we're here today to meet with you in person on these issues. And let me assure you that anything that is said today will carry the same weight as a written comment.

And in terms of ground rules: Very simple. During the question part of the meeting - - during the first part of the meeting, if you have a question, just signal me, and I'll bring you this cordless microphone. Give us your name and affiliation, if appropriate. And we'll try to answer your question.

We are taking a transcript. Tracy is our electronic court reporter/transcriptionist here,

and that will be our record of the meeting and it will be available to any of you who want to have a copy of that transcript.

When we get to the second part of the meeting, we'll call you to come up to the podium to speak to us. If you feel more comfortable staying where you are and speaking into the cordless mike, we can do that also. And usually, I ask people to try to be concise and we have a five-minute guideline for the formal comments, but I don't think we're going to have any problem in terms of time today. So just keep the five minutes in mind. But it is a guideline, and if you go over a little bit, that's fine.

In terms of the presenters for today's meeting, and this will give you an idea about the agenda, we're going to start off with - - and I'll give you a little bit of background on each of these people in a minute. But we're going to start off with Mr. Andy Kugler, who's right here, from the NRC. And Andy is the chief of the section that does the environmental reviews, not only on all the applications that come in for reactor license renewal, but any environmental review for a reactor licensing issue. And he's going to give you an

overview of license renewal.

And then we're going to go to Mr. Bill

Dam, who is right here. Bill works for Andy and

he's the project manager on the environmental review

on the D.C. Cook license renewal application.

After they're done, we'll see if there's any questions about the process overall. And then we're going to go to the heart of the meeting today, which is the conclusions in the draft Environmental Impact Statement, and we have Mr. Kirk LaGory here. Kirk is one of our expert consultants and he's the team leader of the experts that we have working to prepare this Environmental Impact Statement. He'll talk about the conclusions there. Again, we'll go out for questions to you.

And then we're going to go to a specialized part of the draft Environmental Impact Statement and this is something called the Severe Accident Mitigation Alternatives. We have Mr. Bob Palla with us right here today, who's going to talk to that, go out to you for questions again, and then we're going to go back to Mr. Bill Dam to tell us about some conclusions. And that's going to be our agenda for today.

And in terms of some more details on our

1 presenters, Mr. Kugler has been with the NRC for about 24 - -2 3 ANDREW KUGLER: No. NRC 14 years. FACILITATOR CAMERON: Fourteen years 4 5 with NRC and before that, he was with a utility in He was in the Navy Submarine Service. 6 Louisiana. 7 He has just been appointed as the Section Chief for 8 the Environmental Review Section, a few months ago. He has a Bachelor of Science in mechanical 9 engineering from Cooper Union in New York City, and 10 a Master of Science in technical management from 11 Johns Hopkins University. 12 And Bill Dam who is the project manager 13 14 on the environmental review, again, he works for He's been with the NRC for about seven years, 15 Andy. and he was an environmental consultant before that. 16 He worked for the United States Geological Service 17 as a hydrogeologist. And he has a Bachelor's 18 Degree in geology from Guildford College in 19 Greensboro North Carolina, and a Master's degree in 20 Geology from the University of Wyoming. 21 22 We have Dr. Kirk LaGory with us. the team leader on the Environment review and he'll 23 24 be telling us about the conclusions in that

25

particular document.

1 There's a special part of the draft environmental impact statement called Severe 2 3 Accident Mitigation Alternatives or SAMA's is the 4 acronym that we like to use. And we have Mr. Bob 5 Palla here from the NRC staff who is going to talk about that, and we'll go to you for any questions 6 7 and then Bill Dam is going to conclude that first part of the meeting by telling us overall 8 9 conclusions and how to submit written comments. Now, did I leave anybody out? 10 Speaking. 11 I think I covered everybody, but that gives you an idea of what their credentials are and I just would 12 thank all of you for coming out to be with us for 13 14 today's meeting. And I'll turn it over to Andy. Thank you, Chip. 15 ANDREW KUGLER: you all today for coming to our meeting today. 16 hope that the information we provide to you will be 17 helpful and will help you to understand the process 18 that we're going through right now, what we've done 19 so far in that process, and the role that you can 20 play in helping to insure that our final 21 22 environmental statement is an accurate document. First let me provide some general 23 24 context on license renewal. The Atomic Energy Act gives the NRC the authority to issue operating 25

licenses for nuclear power plants for a period of forty years. For D.C. Cook, Units One and Two, these licenses will expire in the years 2014 and 2017 respectively.

Our regulations also make provisions for us to grant 20-year extensions to operating licenses. And the Indiana Michigan Power Company has requested extensions of the licenses for Cook units one and two. As part of the NRC's review of a license renewal application, we perform an environmental review to look at the impacts of running the units for an additional 20 years. held a meeting here back in March where we discussed the scope of our review, and we've returned now to go over the preliminary results of our review as discussed in the draft Environmental Impact Statement. And to give you an opportunity to ask questions or provide comments on the draft. slide.

Before I get into the discussion of the license renewal process itself, I'd like to take a minute to talk about the NRC in terms of what we do and what our mission is. As I mentioned, the Atomic Energy Act is a legislation that authorizes us to regulate the civilian use of nuclear materials in

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the United States.

In exercising that authority, the NRC has a three-fold mission. The first is to insure the adequate protection of the public health and safety. We also have a mission to protect the environment, and finally, to insure the common defense and security. The NRC accomplishes its mission through a combination of regulatory programs and processes, such as inspections, enforcement actions, assessments of licensee's performance, and the evaluation of operating experience at the plants throughout the country.

Turning now to license renewal, the review that we perform is very similar to the review that was performed when these plants were originally licensed. And in that regard, there are really two parts to the review. A safety review and an environmental review.

The safety review includes a safety evaluation, plant inspections and audits, and an independent review by the Advisory Committee on Reactor Safeguards. Also referred to as the ACRS. Now there are two basic types of safety issues that we might be looking at. One is the current issues at the plant and these are dealt with today and on

an on-going basis. And the other issues related to aging management or the aging of equipment at the plant. And these are dealt with in license renewal.

Under the current operating license, the NRC's oversight process monitors current issues and responds to those issues. We don't wait until an application for license renewal to deal with the current issues at a plant. And because the NRC has or is dealing with issues such as security and emergency planning on a continuing basis, we don't reevaluate them in our license renewal review.

Instead, the license renewal safety review focuses on aging management issues and the programs that the licensee either has or will have in place to maintain the equipment safely. We look at specific groups of components and make a determination whether current or planned programs will insure that the issues related to aging are detected and properly managed for the period of extended operation. The results are then documented in a safety evaluation report.

That report is independently reviewed by the ACRS. Now, the ACRS is a group of technical experts in nuclear safety, and they serve as a consulting body for the Commission. They'll review

each license renewal application and the safety
evaluation report and make their own determinations
and conclusions and then report those independently
to the Commission.

In relation to the environmental review which Mr. Bill Dam will discuss in more detail in a few minutes, we evaluate the impacts of the continued operation of the Plant in a number of areas. These would include ecology, hydrology, cultural resources, socieoeconomics and a number of other areas.

Next slide please. This slide gives a graphic representation of the license renewal process. As I indicated, there's two basic paths in this review. The upper path is the safety review and then the lower path is the environmental review.

The safety review involves the staff's review and assessment of safety information that was provided in the licensee's application. There's a team of about 30 NRC technical reviewers and contractors who are involved in conducting this review. The safety review focuses on the effectiveness of the aging management programs for the plant systems and structures that are within the scope of license renewal. The NRC staff reviews the

effectiveness of these programs to insure that the plant can be safely maintained throughout the license renewal term.

The safety review process also involves audits and on-site inspections. These inspections are conducted by a team of inspectors pulled from both headquarters and our regional office. We have a representative of our inspection program here today and he's the senior resident inspector at D.C. Cook. His name is Brian Kemker. Brian, if you could. We also have an individual from the Region Three office and that's Patricia Lougheed.

The results of the inspections are recorded in separate inspection reports and these results and the results of the staff's aging management review will be documented in the safety evaluation report. As I mentioned, that report will then be provided to the ACRS for its independent review. Two of the on-site inspections have been completed and we are in the process of preparing the safety evaluation report right now.

The second part of the review process involves the environmental review. The scoping activities that were carried out earlier and the development of a draft supplement to the Generic

Environmental Impact Statement for License Renewal of Nuclear Power Plants, a document we refer to as the GEIS. The draft Environmental Impact Statement has been published for comment and we're here tonight to briefly discuss the results and to receive your comments. We expect to issue the final Environmental Impact Statement in May of next year. And this will incorporate any comments we receive here today and any comments we receive in writing during the comment period.

So as you can see from this slide, there are a number of things that will go into the Commission's eventual decision as to whether or not to approve license renewal for D.C. Cook Units One and Two. There needs to be a Safety Evaluation Report, an Environmental Impact Statement, the inspection reports from the region, and the independent review by the ACRS.

I'd like to point out the splash symbols on the slide. These indicate opportunities for public involvement in the review. The first opportunity occurred during the scoping period back in March when we gave people an opportunity to provide inputs on what the scope of our review should be. We held meetings here at that time and

1 some of you may have attended that meeting. This meeting on the draft Environmental 2 3 Impact Statement is another opportunity. It is also 4 an opportunity to request a formal adjudicatory hearing on the license renewal review. 5 This hearing would have taken place in front of an Atomic Safety 6 and Licensing Board panel. However, no one 7 8 requested a hearing and so that portion of the 9 review is not applicable here. And then, finally, 10 the ACRS meeting to discuss the results of the safety review will be open to the public. 11 Now I'd like to turn things over to Mr. 12 Bill Dam and he'll discuss the environmental review 13 14 in a bit more detail. Thank you. Thanks, Andy. My name is 15 WILLIAM DAM: Bill Dam and I'm the environmental project manager. 16 My responsibility is to coordinate the efforts of 17 NRC staff including a team from national 18 laboratories who have expert knowledge in various 19 environmental fields, and help us prepare the 20 21 Environmental Impact Statement. 22 The National Environmental Policy Act of 1969 requires a systematic approach in evaluating 23

Consideration is given to the environmental impacts

impacts of proposed major federal actions.

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of the proposed action, the mitigation for any impacts that are believed to be significant.

Alternatives taken into account and no action alternatives on the applicant's request are also considered.

The Environmental Impact Statement is a disclosure tool and it involves public participation. NRC regulations require that an Environmental Impact Statement be prepared for the proposed license renewal activities. So we're here today to collect public comments on the draft statement and include those comments on the final report.

This slide defines our legal decision standard that follows from our environmental analysis. It basically asks two questions: Is the license renewal acceptable from an environmental standpoint; and secondly, should the option for extending power plant operations be preserved. We, at the NRC, do not decide whether the D.C. Cook plant actually operates an additional 20 years. That decision is left up to the power company, to the state regulators, and other people who make that final decision for continuing plant operations.

On slide five - - Andy already described

the overall safety and environmental process. Here we have a more detailed environmental process slide that we go through in evaluating an application for license renewal. The Indiana Michigan Power Company submitted their application for license renewal to the NRC on October 31, 2003. We subsequently put formal notice in the Federal Register that we would prepare an Environmental Impact Statement associated with that application. The Federal Register notice began the scoping process, which invited public participation early in the process. We conducted a scoping meeting in early March of that year to examine the bounds of our environmental evaluation.

We also brought a team of experts from national labs to examine inside and outside the power plant, to review a substantial volume of information that was available to us and also to interview site personnel as well as going out into the community and meeting with local and state officials. If, after all that activity, we still don't have all the information that we need to help us prepare draft Environmental Impact Statement, we send out a formal request for additional information that is sent to the applicant. So three weeks after we performed our site audit, we prepared and sent

1 out a request for information on those remaining issues or concerns that we had. 2 3 After we get back the answers to the 4 request for information and we examine all the 5 information we have, we put that into and issue a draft Environmental Impact Statement. We issued the 6 7 draft supplement to the Generic Environmental Impact 8 Statement about six weeks ago. And in a few 9 minutes, we'll be hearing from Dr. Kirk LaGory, the Argonne National Lab Team Leader, who will share the 10 11 results of our findings. Presently, we're in the middle of the 12 public comment period on the draft statement which 13 14 will expire in about five weeks. Once we get all the public comments in, including what we receive at 15 this meeting, then we will evaluate all that and 16 publish a final Environmental Impact Statement. 17 schedule presently provides for the final 18 19 Environmental Impact Statement to be published May, 2005. 20 21 For the moment, that concludes my 22 remarks and I'd be happy to entertain questions. I'll turn the mike over to Chip. 23 24 FACILITATOR CAMERON: Thank you, Andy. Any questions on process at this 25 Thanks, Bill.

point before we go on? Okay. Great. We're going to go to Dr. Kirk LaGory now to tell us about what the findings are in the draft Environmental Impact Statement.

KIRK LAGORY: Thank you, Chip. Again, my name is Kirk LaGory. I am an ecologist at Argonne National Laboratory and I was the project team leader for the Cook Plant EIS. The NRC contracted with Argonne and Pacific Northwest National Laboratory to provide the expertise necessary to evaluate the impacts of license renewal at the Cook Nuclear Plant. The EIS team consists of scientists from the two national laboratories as well as NRC staff. This slide shows the team expertise represented by those staff. We really cover the full range of possible impact area growing from air, human systems, socioeconomics, things like jobs, education, environmental justice issues, archeology, historical resources. Issues associated with - - with the land. Terrestrial ecology and land use. Issues associated with the water. like aquatic ecology, hydrology, both surface water and ground water hydrology. And then we also look at radiation protection and regulatory compliance issues. Next slide.

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This slide shows our overall approach in preparing the EIS. Before I go into this slide, though, I'd like to give you some background to help you understand the overall process. Back in the mid-90's, the NRC evaluated the impacts of all operating nuclear plants across the country. looked at 92 separate impact areas and found that for 69, issues, the impacts would be the same for all plants that had similar features. NRC called these, Category One issues and made the same generic determination about their impacts. They determined that the impacts would be small. And published their findings in the Generic Environmental Impact Statement for License Renewal, which was issued in 1996.

The NRC was unable to make generic conclusions about the remaining 23 issues. These were called Category Two issues. And determined that a site-specific supplemental EIS would have to be prepared to cover those Category Two issues. And it is the supplement for the Cook plant that we're talking about today.

So this slide shows the process that we used. We looked at the Category One issues relevant to the Cook Plant to determine if the conclusion in

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the Generic EIS was still valid. Specifically, we looked for any new and significant information that might change that conclusion. If we found no significant information or new information, we adopted the conclusions in the Generic EIS. If, however, new and significant information was identified, then a site-specific analysis was performed.

relevant to the Cook Plant, we performed sitespecific analyses. And that is really the bulk of
the EIS that addresses those Category Two issues,
the site-specific analysis relevant to those. On
the right hand portion of this slide, there shows
that there also is a process to identify new issues,
issues that were not considered in the generic EIS.

If those come to the attention of the team during
the process, those are considered and then included,
if relevant. That was - - we did not find any
potential new issues for the Cook Plant.

In the generic EIS, the NRC defined three impact levels: Small, moderate and large.

And the definitions for those impact levels are provided in this slide. A small effect would not be detectable or would be too small to destabilize or

noticeably alter any important attribute of the resource under consideration.

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A moderate effect would be one that is sufficient to noticeably alter a resource but not destabilize important attributes of that resource.

And then a large effect is one that would be clearly noticeable and would be sufficient to destabilize important attributes of the resource.

To illustrate the way we use these impact levels, I'm going to talk about the Lake Michigan Fishery. The operation of the Cook Plant may cause the loss of fish at the cooling system intake structure. If the loss of fish is so small that it cannot be detected in relation to the total population in Lake Michigan or to the population in the area around the Cook Plant, then we would call that impact small. If the losses resulting from cooling system intake were large enough to cause a slight decline in the population, but then the population stabilized at a lower level, then we would call that impact, moderate. If, however, the losses caused the populations to decline substantially and continue to decline - - in other words, they became unstable, then we would call that type of impact large. Next slide.

When the EIS team evaluated the impacts
from continued operations at the Cook Nuclear Plant,
we considered information from a wide variety of
sources. First, we looked at the environmental
report that the applicant prepared and included
within the license renewal application. In March,
we performed a site audit where EIS team members
visited the site and the surroundings, interviewed
plant personnel and reviewed documentation of plant
operations. We also talked to federal, state and
local agencies, permitting authorities and social
services, basically to determine if there were
concerns about the past operations of the Cook Plant
and if those entities had any information that we
might use in our impact analysis. And then lastly,
we received public comments during the scoping
period and included that information in our overall
process. All of this information forms the basis
for the analysis and preliminary conclusions that
are in the draft EIS. Next slide.
The Cool TTC was allowed by

The Cook EIS considers the environmental impacts of continued operations of Units One and Two during the 20-year license renewal term, that is 2014 to 2034, for Unit One; and 2017 to 2037 for Unit Two. The impacts of routine operations were

considered for the cooling system, for the transmission lines that were built to connect the Cook Plant to the electrical grid, for radiological issues, for socioeconomic issues such as jobs and education, for ground water use and quality, for threatened and endangered species, cumulative impacts, as well as for postulated accidents and severe accident mitigation alternatives. In this talk, I'm going to speak directly to the impacts of routine operations. Bob Palla will talk about the impacts of the - - or the accident analysis that was performed by the NRC.

So one of the issues that we looked very closely at were the impacts of the cooling system at the Cook Plant. There are three Category Two issues relevant to that cooling system. Entrainment of fish and shellfish in early life stages, impingement of fish and shellfish, and heat shock. Entrainment refers to the pulling in of small organisms - - aquatic organisms into the cooling system.

Impingement refers to the pulling in of larger organisms into the cooling system and those larger organisms become pinned on the debris screens that protect the cooling system from debris and other floating or suspended material in the water.

Heat shock occurs when relatively warm water is released into cool water. Aquatic organisms that are adapted to that cooler water can lose equilibrium or even die when exposed to significantly warmer water. All of these processes can result in mortality of organisms.

When we looked at the monitoring results and various studies that have been conducted, the numbers of organisms that have been entrained and impinged or affected by heat shock and the number - - those numbers relative to the overall populations in the lake and in that general area, we came to the conclusion that the potential impact in these areas would be small and that additional mitigation is not warranted.

There are also a number of Category One issues related to the cooling system that we looked at. Some issues - - some such issues are water use conflicts, accumulation of contaminants and discharge of sanitary waste. In the generic EIS the NRC determined that the impacts associated with these category one issues would be small. We evaluated all information to see if there was any new and significant information for these issues.

We did not find any and therefore, adopted NRC's

generic conclusion that the impact of the cooling system for these Category One issues would also be small.

The radiological impacts of normal operations including radiation exposure to the public and occupational radiation exposures was considered by the NRC in the generic Environmental Impact Statement and a determination was made that these were Category One issues. In other words, the impacts varied little across the various plants in the country, and that those impacts would be small over the 20-year license renewal period.

But because these releases are of concern to the public, I'm going to discuss these in a little bit more detail here. All nuclear plants release some radiological effluents to the environment. During our site visit, we looked at the documentation for effluent release and the radiological monitoring program at Cook. We looked at how the gaseous and liquid effluents were treated and released, as well as how the solid wastes were treated, packaged and shipped from the site. We looked at how the applicant determines and demonstrates that they are in compliance with the regulation for release of radiological effluents.

1	We also looked at data from on-site and near site
2	locations that the applicant monitors for airborne
3	releases and direct radiation and at other
4	monitoring stations beyond the site boundary,
5	including locations where water, milk, fish and food
6	products are sampled.
7	We found that the maximum calculated
8	doses for a member of the public are well within
9	annual limits that are considered protective of
10	human health. Since releases from the plant are not
11	expected to increase during the 20-year license
12	renewal term, and since we also found no new and
13	significant information related to this issue, we
14	adopted the generic conclusion in the generic EIS
15	that the radiological impact on human health and the
16	environment is small.
17	FACILITATOR CAMERON: Mr. Pielemeier, do
18	you have a quick question for us now?
19	JOHN PIELEMEIER: Well, I was just
20	wondering whether
21	FACILITATOR CAMERON: Let's get you on
22	the record.
23	JOHN PIELEMEIER: Thank you. In general
24	with the nuclear generating plants what is the
25	history of any incidents of leukemia or anything of

1	that sort among operating personnel?
2	FACILITATOR CAMERON: And let's
3	let's get to that question, but let's let him do the
4	rest of his presentation and then we'll come back to
5	that. Okay?
6	JOHN PIELEMEIER: Okay.
7	FACILITATOR CAMERON: Do you want to
8	continue and then we'll go on to answer his
9	question.
10	KIRK LAGORY: Okay. Sure. Next slide.
11	Impacts to threatened and endangered species is also
12	considered a Category Two issue that requires a
13	site-specific review. Our evaluation considered
14	those species that are known to occur or could occur
15	in the vicinity of the Cook Plant or the
16	transmission lines associated with the Plant. This
17	slide shows the 11 species that could occur in the
18	project area.
19	We evaluated the locations of these
20	species, their habitats, and the possibility of
21	impacts over the 20-year license renewal period. We
22	also discussed our findings with the US Fish and
23	Wildlife Service that oversees implementation of the
24	Endangered Species Act. The Fish and Wildlife

Service concurred with our conclusion that

relicensing would not affect these species. Next slide.

Waste water disposal at the Cook Plant has the potential to affect ground water quality because the plant discharges processed waste water and sanitary wastes to two absorption ponds and two sewage lagoons on the site. And here are the absorption ponds and then the sewage lagoons next to those. These two disposal systems receive effluent that is treated, but then further treatment is provided by the natural soil column as the effluent flows through that soil column and into the underlying groundwater. Discharges flow ultimately into Lake Michigan.

Monitoring wells are used to regularly monitor groundwater quality in this area. This monitoring over the years has shown that groundwater quality has been in compliance with permit requirements and with national drinking water standards. And I might add that permits are regulated by the Michigan Department of Environmental Quality and that they oversee compliance with permits and standards.

On the basis of this information, we concluded that the impacts to groundwater quality

would be small and that additional mitigation is not warranted. Next Slide.

We also considered cumulative impacts of operations. Cumulative impacts are those impacts that are minor when considered individually, but significant when considered with other past, present and future actions regardless of what agency or person undertakes those other actions. The staff considered cumulative impacts resulting from operation of the cooling water system, operation of the transmission lines, releases of radiation and radiological material into the environment, socioeconomic impacts, groundwater use and quality impacts, and impacts to threatened and endangered And we looked at the cumulative impacts species. that would occur over the 20-year license renewal Our preliminary determination is that any cumulative impacts resulting from operation of the Cook Nuclear Plan during the license renewal period would be small.

We also looked at impacts to the uranium fuel cycle and solid waste management and decommissioning. In the generic EIS, the NRC considered impact areas associated with these topics as Category One issues. Our team found no new and

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significant information associated with these topics and therefore adopted the conclusion in the generic EIS that impacts in these areas would be small.

Cook Nuclear Plant Units One and Two have a combined capacity of over 2,000 megawatts. EIS team evaluating the potential environmental impacts associated with the Cook Plant not continuing operation and replacing its generating capacity with alternative power sources. We looked at a no action alternative where the power capacity of the Cook Plant would not be replaced. We looked at replacement of that capacity with new generation from either coal, natural gas or new nuclear. looked at replacement of that capacity with purchased electrical power and then we looked at other alternatives including oil, wind, solar and And then we examined the impacts of a conservation. combination of those various alternatives.

For each alternative, we looked at the same types of issues that we looked at for the operation of the Cook Plant during the license renewal term. The team's preliminary conclusion is that the environmental impacts of alternatives - - of all alternatives reach moderate or large significance in at least some impact categories. So

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the impacts of all alternatives would have larger 1 environmental impacts than the impacts of 2 3 relicensing over the 20-year - - for another 20 4 years. Next slide. 5 So our preliminary conclusions for the Category One issues presented in the generic EIS, we 6 7 found no information that was both new and 8 significant. Therefore, we have preliminarily 9 adopted the conclusion that impacts associated with these issues are small. 10 11 In the supplement EIS, we analyzed the remaining Category Two issues pertinent to the Cook 12 Plant as well as the issue of groundwater quality 13 14 degradation associated with on-site disposal of processed waste water and sanitary waste water, 15 those impacts also would be small. 16 And lastly, we found that for all 17 alternatives, at least in some impact categories, 18 and this is usually related to the amount of land 19 20 disturbance associated with building new capacity, that there would likely be moderate or large impact 21 22 in some impact area. So that concludes my talk. I'll turn this 23 24 back to Chip and we can address questions. 25 FACILITATOR CAMERON: Okay. Thank you,

Kirk. And let's first try to answer Mr.

Pielemeier's question which I'm going to paraphrase
it, but are there - - have there been any studies
about the health effects of the radiation exposures
to workers at the facility? We'll go to Andy
Kugler.

ANDREW KUGLER: Okay. Thank you, Chip.

I'm not aware of any specific studies related to
cancers in the workers. There have been studies
that I'm aware of related to the population around
power plants to evaluate whether there's any
indication that there were increases of incidents of
cancer around power plants. And the conclusions of
those studies was that there wasn't any higher rate
of cancer. But I'm not aware of specific studies.

Now what I am - - what I can tell us is that the Plants monitor the exposure of their personnel, that they're required to have a program in place called ALARA, As Low as Reasonably Achievable, where they are required to take steps to minimize the dose to workers. And that goes beyond just - - I mean, plant designs and approaches were intended to minimize doses, to begin with, but this program requires them to go beyond that and to do everything they can to minimize dose. In general,

the exposures to workers are well below our limits,
our regulatory limits. But as far as studies, I
don't have any specific data. And that's something
that when we get back, we can take a look if there
is something specific. I'm not a radiation
specialist, so I wouldn't necessarily be aware if
there was a study. But we can try and gather more
information. But the standards to which they're
being held, were set by international committees
that determine what would be a safe level and you
have this you know you stay below that
level. And plants all do that and they maintain the
exposure to their staff well below those limits, but
I'll see if we can find something out as far as any
studies that have been done.
FACILITATOR CAMERON: And there is a
section in the draft on occupational exposures.
ANDREW KUGLER: Correct.
FACILITATOR CAMERON: Perhaps we could
direct Mr. Pielemeier to that. Do you have any
do you have a follow-up question on that, Mr.
Pielemeier?
JOHN PIELEMEIER: No. I would simply feel
that since many of these plants have been in
operation now for a significant period of time,

1 that, you know, if might be of interest now. they were started, you know, there was no long-term 2 3 history to study, so to speak, but there would be 4 And I thought that might be of interest. 5 ANDREW KUGLER: And there very well may It just might not be something I'd be aware of. 6 be. 7 Okay. 8 FACILITATOR CAMERON: Okay. Other 9 questions about the findings in the draft 10 Environmental Impact Statement for Dr. LaGory or 11 anybody else? Any questions? Any further issues? If not, we're going to go to the severe accident 12 mitigation alternatives that Dr. LaGory referred to 13 14 and we have Bob Palla with us who's a Senior Reactor Engineer at the Nuclear Regulatory Commission. And, 15 he spent most of his 23 years at the Commission 16 looking at severe accidents and something called 17 probabilistic risk analysis. And, Bob, I'll turn it 18 19 over to you. Thanks, Chip. My name is Bob 20 BOB PALLA: 21 Palla. I'm with the Probabilistic Safety Assessment 22 Branch of NRC and I'm going to discuss the environmental impacts of postulated accidents. 23 24 These impacts are described in Section 5 of the

Generic Environmental Impact Statement or the GEIS.

The GEIS evaluates two categories of accidents:
Design-basis accidents and severe accidents.

Now, design-basis accidents are those accidents that both the licensee and the NRC staff evaluate to insure that the plant can safely respond to a broad spectrum of postulated accidents without risk to the public. The environmental impacts of design-basis accidents are evaluated during the initial licensing process and the ability of the plant to withstand these accidents has to be demonstrated before the plant is granted an operating license. Most importantly, a licensee is required to maintain an acceptable design and performance capability throughout the life of the plant, including any extended life operation.

Since the licensee has to demonstrate this acceptable plant performance for the design-basis accident throughout the life of the plant, the Commission has determined that the environmental impact of design-basis accidents are of small significance. Neither the NRC nor the licensee is aware of any new and significant information on the capability of the D.C. Cook Plant to withstand design-basis accidents. Therefore, the staff concludes that there are no impacts related to the

design-basis accidents beyond those discussed in the GEIS.

Now, with regard to severe accidents, the second category, these accidents, by definition are more severe than design-basis accidents because they could result in substantial damage to the reactor core. The Commission found in the GEIS that the risk of a severe accident, in terms of atmospheric releases, fallout onto open bodies of water, releases to groundwater and societal impacts are small for all plants. Nevertheless, the Commission determined that alternatives to mitigate severe accidents must be considered for all plants that have not done so. We refer to these alternatives as severe accident mitigation alternatives or SAMA's for short.

Now, the SAMA evaluation is a sitespecific assessment and it's a Category Two issue as
Kirk described moments ago. The SAMA review for
D.C. Cook is summarized in section 5.2 of the GEIS
supplement and is described in more detail in
Appendix G of the GEIS supplement. And I'm going to
be focusing on the results of this review in the
remainder of my presentation.

Now, before I get started, let me just

outline and summarize that the purpose of performing the SAMA evaluation is to insure that plant changes with the potential for improving severe accident safety performance are identified and evaluated. The scope of potential plan improvements that were considered include hardware modifications, procedure changes, training program improvements, as well as other changes. Basically, a full spectrum of potential changes. The scope includes SAMA's that would prevent core damage as well as SAMA's that would improve containment performance given that a core damage event may occur.

The SAMA evaluation process is a four-step process. The first step is to characterize overall plant risk and leading contributors to risk. This typically involves extensive use of the plant-specific probabilistic risk assessment study which is also known as the PRA. The PRA is a study that identifies different combinations of system failures and human errors that would be required to occur in order for an accident to progress to either core damage or containment failure. The second step of the evaluation is to identify potential improvements that could further reduce risk. The information from the PRA, such as a dominant accident sequence

is used to help identify plant improvements that would have the greatest impact in reducing risk.

Improvements identified in other NRC and industry studies as well as SAMA analyses for other plants, are also considered.

The third step in the evaluation is to quantify the risk reduction potential and the implementation costs for each improvement. The risk reduction and the implementation costs for each SAMA are typically estimated using abounding analysis. The risk reduction is generally over estimated by assuming that the plant improvement is completely effective in eliminating the accident sequences it is intended to address.

The implementation costs are generally under estimated by neglecting certain cost factors such as maintenance costs and surveillance costs associated with the improvement.

The risk reduction and cost estimates are used in the final step to determine whether implementation of any of the improvements can be justified. In determining whether an improvement is justified, the NRC staff looks at three factors. The first is whether the improvement is cost beneficial. In other words, is the estimated

benefit greater than the estimated implementation costs of the SAMA. The second factor is whether the improvement provides a significant reduction in total risk. For example, does it eliminate a sequence or a containment failure mode that contributes to a large fraction of the plant risk.

The third factor is whether the risk reduction is associated with aging effects during the period of extended operation, in which case, if it was, we would consider implementation of the SAMA as part of the license renewal process.

The preliminary results of the D.C. Cook
SAMA evaluation are summarized on this slide. 194
candidate improvements were identified for D.C. Cook
based on the review of the plant-specific PRA,
relevant industry and NRC studies on severe
accidents, and SAMA analyses performed for other
plants. The licensee reduced this set to a set of
72 potential SAMA's based on an initial screening.
Factors considered during the screening included
whether the SAMA is not applicable to D.C. Cook due
to design differences, whether it has already been
addressed in the existing D.C. Cook design or
procedures or training program, and whether the SAMA
would involve major plant changes that would clearly

be in excess of the bounding benefit. So if it met any of those three general conditions, the SAMA's were screened out. The end result was that 72 of these were screened from the initial 194, and then upon further assessment, the 72 was further reduced yet. But a more detailed assessment of these were first performed. This is described in detail in Appendix G of the GEIS supplement.

The cost/benefit analysis that was done for the 72 shows that 16 of these are potentially cost beneficial when evaluated individually in accordance with NRC guidance for performing regulatory analyses. These 16 potentially cost beneficial SAMA's are grouped into five areas of risk reduction and SAMA's within each of these areas generally address the same risk contributor in a The 16 SAMA's include 7 SAMA's that different way. are related to minimizing the potential for leakage from reactor cooling pump seals. Four SAMA's related to minimizing the impacts of the loss of ventilation systems that would cool emergency diesel generators and switch gear. Two SAMA's related to improving the performance of hydrogen-controlled systems during station black-out accidents. the SAMA's involved minimizing the impact of the

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loss of AC bus failures in the plant. And two SAMA's related to improving operator recovery from interfacing system LOCA accidents.

Now implementation of one SAMA within a group could reduce the residual risk from that group to a point that the remaining SAMA's in the group would no longer be cost beneficial. So as a result, implementation of all 16 SAMA's is not expected to be justified on a cost/benefit basis. Rather, implementation of a carefully selected subset of the 16 might achieve much of the risk reduction in a cost-effective manner.

On this last slide I summarize the conclusions of the study. None of the costbeneficial SAMA's of these 16 are related to managing the effects of plant aging. And as I discussed previously, if they are not aging related, they need not be implemented as part of license renewal. Now, although they're not required to be implemented as part of the license renewal process, the licensee is further assessing these SAMA's and evaluating implementation options in accordance with the D.C. Cook corrective actions program. So that concludes my presentation. I'll turn it over to Chip for any questions.

FACILITATOR CAMERON: Okay. Thank you,
Bob. So you heard about the severe accident
alternatives. Are there any questions on that
aspect of the Environmental Impact Statement? Yes.
And this is Mr. Pielemeier. Mr. Pielemeier.

JOHN PIELEMEIER: I love to ask questions.

A number of years ago, there was a - - I believe a shut-down operation for a situation where the - - the ice jacket around the - - one of the cooling units was not considered adequate in terms of the baskets and so on that contain the ice. Now, you know that's as little as I understand it - - that issue. But I just wondered whether that has remained as an issue in any way or whether it's been fully rectified?

BOB PALLA: Well, let me - - let me separate, if I may, the safety side from the environmental side and what we did in the analysis I just described. This - - the performance issue perhaps is the best way to characterize what you're referring to. Some problems with the ice condenser pressure suppression function of the containment. And this is something that I guess is really part of the safety review. I don't know that it's an aging issue. I don't suspect that it is. I think it's

just a regular everyday issue from an operations point of view when operating these ice condenser containments. I think as - - when these plants were first started, I think it was a steep learning There are a lot of operational issues that were revealed as the plants - - as they gained more experience with the operation of the plants. understanding is that these issues over time have been ironed out and that they - - you know - - just by the experience base that's been gained over the years, both Cook as well as other ice condenser plants operating in the country, you know, share their insights regarding operational issues. speaking, you know, off the cuff here, to say I expect that that's the case. But I - - that's my expectation.

Now, with regard - - and that's really a safety issue. Probably not even an aging-related issue. It's an operating plant issue. With regard to what we do in the SAMA evaluation, issues like that would be, if significant and if revealed, you know, over time, let's say it happened on a regular basis. These kind of failures would be part of the probabilistic risk assessment and you would see a risk contribution to that within the baseline study.

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1 Now, we didn't look at any ice condenser issues as part of this SAMA review. We did not see it as a 2 I don't believe it's - - it appears as a 3 4 significant risk contributor. 5 FACILITATOR CAMERON: So in other words, you didn't look at them because they didn't appear 6 7 to be any sort of a significant risk contributor. 8 BOB PALLA: That's right. What we try to 9 do here is focus on where we think the residual risk 10 is coming from and then try to find ways that you can reduce that through smart selection of some 11 potential plant improvements. This didn't - - this 12 kind of problem that you're referring to did not 13 14 reveal itself through the risk assessment, so we did not explore ways to fix a problem that we didn't 15 see as a problem. 16 FACILITATOR CAMERON: Anything else on 17 that, Mr. Pielemeier? All right. Any questions on 18 any of the presentations so far? Anything else that 19 20 we could answer for you? Okay. well, let's go to the final summing up by Mr. Bill Dam, the 21 22 Environmental Project Manager is going to do that for us. Bill? 23 24 WILLIAM DAM: Turning to our conclusions, we found that for license renewal the environmental 25

impacts are small in all areas. When we looked at the alternatives part, including the no action alternative, the environmental effects had some impact categories ranging from small, moderate or large significance.

Based on these results, our preliminary conclusion is that by operating the Donald C. Cook Plant, Units One and Two, for an additional 20 years, the environmental impacts would be small and therefore, the option to renew the license should be preserved for energy planning decision makers.

As I mentioned before, the draft
Environmental Impact Statement was released in
September. So what happens next? We're into a 75day comment period that runs until December. After
that, we will review and disposition the comments we
receive tonight and after this meeting, if we get
any, and we'll modify the Environmental Impact
Statement and release a final draft by May of next
year, 2005.

This slide describes the reference documents and I'm available at this phone number and I'd be happy to talk to anybody who wants to call and provide me information about what we're here

discussing tonight. Also, the environmental documents are available at two public libraries.

One is the Bridgman, and one in St. Joseph. And there's also quite a bit of information on the NRC website about a range of issues. Specifically to this project, the draft Environmental Impact Statement is available on line at the long address, e-mail address you can see there or the website address.

So outside of this meeting tonight, there are three additional ways that you can provide us comments on the draft Environmental Impact
Statement. One is by writing to us at this address.
The second way is in person, if you happen to be in the Rockville, Maryland area. We'd be happy to meet with you and discuss your comments. And the third, we've set up a special e-mail address to receive comments. And that address is CookEIS@nrc.gov.
All comments will be collected and considered and responded to in our final Environmental Impact Statement.

I want to take time to thank you for attending this meeting for this very important process. And please take brochures and other information in the back. And we have single copies

of the draft Environmental Impact Statement available for you to take home. Also, we also request that you provide us your feed-back. It will help us prepare for future meetings. I thank you, again, for attending and being great participants.

FACILITATOR CAMERON: Okay. Thanks, Bill. We're going to move into the second part of the meeting now, which is to have an opportunity to listen to any comments that you have. And we always like to give the - - a representative of the license applicant an opportunity to tell us a little bit more about their vision and plans connected to license renewal. And we have the Chief Nuclear Officer and Senior Vice Present for AEP with us tonight, Mr. Mano Nazar who is going to talk to us for a few minutes. And then we're going to go to some other commenters that we have. Mr. Nazar?

MANO NAZAR: Thank you. On behalf of
American Electric Power, I want to thank you for
coming tonight and taking time away from the family
and busy schedule. Just want to share briefly
about our process. You have heard from members of
the NRC as far as their assessment and review of our
application. But we want to let you know that this
application just didn't go to the NRC without

extensive internal review that we use to make sure that our application was meeting all of the requirements and they're not just minimum requirements, but above and beyond.

We actually started work on the license renewal from year 2001. As you saw, the application was submitted 2003, which is two years after we started working on the application to make sure that the application was solid with respect to the quality and met all of the expectations and requirements and regulations.

One thing that I am going to share with you is that - - with respect to the way we conduct our operation. As you heard, I'm Chief Nuclear Officer. The Site Vice President and Plant Manger, Vice President of Engineering, they report to me. I have been in this industry for 24 years in several different plants. This is the fourth plant and I've been through license renewal for actually, the second nuclear power plant in the industry, which was Oconee Nuclear Site for Duke Energy in Carolinas.

We operate this plant based on some core values that are based on prevention. Our operation of the facility is based on getting ahead of the

issues and solving the issues before they become crisis or failures. And as a result of that, tremendous work takes place in the form of preventative activities. And we routinely, day in and day out, we're conducting preventative activities to make sure that we are in operational readiness at any given time, at any given time.

And then because of that, again, obviously we have roughly 1,400 to 1,500 people working at that site, very solid citizens, solid employees.

They are very involved in the community, which is part of our mission. Our mission is to operate our facility as safe as possible, as reliable as possible, low cost which, hopefully, our customers, they benefit from that aspect of it as well. And the friendly environment and our community. That's part of our mission to do all those while we're caring about the community and environment.

And our employees, they are very involved in community and are helping the community and we want to be a very good neighbor to this community and we have been. We are involved in all aspects of the community needs and, you're going to probably hear later on, as far as involvement that our employees have to insure that we are fulfilling our

obligation to the community as well as operating the facility to the highest level of the standard in the industry.

This particular decision was an easy decision for American Electric Power. The cost is tremendous to just put our application together and submit the application and go through extensive reviews as you probably have heard so far. This process, it takes roughly about two years to And it's extensive, a lot of work and we complete. always closely work with the regulators and members of NRC to make sure that any enhancements, any issues - - doesn't matter to what magnitude, minor, medium, but that we get ahead of those and correct Correct them in preventative ways. Make sure them. that we enhance our operational aspect of the facility to the optimum level.

This also - - the costs doesn't stop by just submitting application. When you make long-term commitment to operate this facility, it's multimillion dollar decision. We plan for additional 20 years that we're going to operate. Spend lot of money from the financial aspect to make sure this operation is the highest standard. And all of our equipment, you heard about the equipment

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aging program, you have very extensive, solid, comprehensive program to make sure that we are dealing with the aging for the mechanisms. At any given time, that we are staying ahead of the issue.

That results in a lot of repair and replacements of the major equipment and that's where the cost comes in. And I wouldn't be surprised just within next few years, we probably going to spend half a billion dollars to make sure that this facility is top notch in industry and operating it at that highest level that I referred to.

So that's our commitment, that's the commitment of the entire Cook organization and employees, and I'm representing them. And I promise the community that we are here for the long-haul. We don't have short term visions. As a result, our activities are based on that concept. Based on those core values. So again, I appreciate your being here. Thanks for some of the comments that you heard from members of the NRC. And our work never stops. It's a journey with no rest area. We continue working toward excellence. Thank you very much.

FACILITATOR CAMERON: Okay. Thank you,
Mr. Nazar. Mr. Nazar and his staff are here tonight

and will be available for questions or discussion after the meeting. We have three additional speakers. First of all we're going to go to Mr. Pat Moody, with the Cornerstone Chamber of Commerce.

Then to Nanette Keiser, President of the Berrien Community Foundation and then to Mr. John Pielemeier. And I would ask Mr. Moody to come up. Do you want to come up here or you can use this if you want, but you can go to the podium. Okay.

PAT MOODY: Thank you very much. My name is Pat Moody. I am Vice President of Investor and Community Relations for Cornerstone Alliance, and Executive Vice President of the Cornerstone Chamber of Commerce. I represent more than 750 members and investors of the largest economic development agency in Michigan's great southwest and the lead Chamber of Commerce in the entire area.

Our daily charge is to retain existing businesses in our region and to attract new businesses to enhance the quality of life in the area. Naturally, we would be very interested in retaining one of our largest employers. Our organization absolutely, unequivocally and quite cheerfully endorse and support the relicensing of the Donald C. Cook Nuclear Power Plant because the

Cook is an outstanding community partner. We annually track the top 100 employers in our region, and this Plant is number on that list. There are only two employers in the area with larger payrolls: Whirlpool Corporation and the Lakeland Regional Health System.

Additionally, the Plant is the largest single tax payer in this county, contributing the highest share of dollars toward our public school systems, our police and fire departments, our streets and sewers, our parks and playgrounds. Clearly, they are a vital cog in the machine of commerce and public infrastructure and they have significant impact here. They provide and attract a highly skilled labor and often times, as a result, provide an outstanding labor pool in the form of spouses, family members and significant others who travel with them. The men and women of the Cook Nuclear Power Team are very well known for sharing their time, talent and treasure to support nonprofit, charitable and health and human service organizations throughout the area.

Frankly, I can't imagine life without this good neighbor and all that it brings to the table on a daily basis. We showcase the Plant when we work

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to attract new businesses to the area, pointing with pride to the capacity and the output and the positive impact that they have on utility costs for manufacturers and others.

The bottom line is that this Plant is good for business. It is good for economic development and it is good for the people who call this place home. And we appreciate the opportunity to share our desire to see license renewal proceed to successful conclusion and approval.

FACILITATOR CAMERON: Great. Thank you, Mr. Moody. And we're going to go to Ms. Nanette Keiser at this point.

NANETTE KEISER: Hello. I'm Nanette

Keiser, President and Executive Director of the

Berrien Community Foundation. We support the

renewing the licenses for the Cook Nuclear Plan,

Units One and Two, in part because AEP-Cook is a

great corporate citizen doing much for our

community. We at the Foundation have the privilege

of working with two Heart of Cook programs,

sheparded by Jennifer Kernosky and Bill Shalk. In

both cases, these Heart of Cook programs help many
in our communities by providing scholarships and

grants at significant levels.

1	Also AEP-Cook employees are very active in
2	our community as volunteers. For example, Bob Story
3	chairs the Harbor Habitat Board and also is very
4	active in the 2005 Jimmy Carter Work Project. We
5	can count many Cook employees as members among the
6	local service clubs. We are fortunate to have such
7	a giving organization in our community. This has
8	resulted in a great positive impact on our
9	socioeconomic environment. We need to keep them
10	here for at least another 20 years. Thank you.
11	FACILITATOR CAMERON: Okay. Thank you
12	very much. Next we're going to go to Mr. John
13	Pielemeier. John?
14	JOHN PIELEMEIER: I don't represent anyone
15	other than myself, so to speak. No organization or
16	anything. And some of my comments are probably of
17	more of a generic nature than Cook specific. But
18	it's a chance for me to get some of them off my
19	chest.
20	I've broken this down briefly into three
21	areas: Local impact of the Cook Plant extension.
22	Then the National aspects of nuclear power
23	generation and from there, the world wide aspects.
24	First of all, from the local impact, I've
25	seen no adverse impact on local land, air and water

quality caused by the Cook Plant. However, longterm local storage of spent fuel is undesirable. It
should be moved to the Yucca Mountain ASAP. Cook
has been a good community neighbor. Conversely,
nonextension of the Cook license would increase
local electric rates, negatively impacting
residential, business and industrial customers. The
local economy would be depressed. The tax base
would be devastated.

From a national standpoint, extending current nuclear plant licenses and building additional nuclear plants has immense potential benefit by reducing use of natural gas for electric generation, cost and supply of gas would be improved. Gas would be more available for more appropriate uses, such as domestic and industrial heating and production of plastics. Reduced cost of electricity would be a boon to the entire economy, and improve our trade competitiveness. reduced use of coal could reduce our air pollution as well as reduce mercury in the water and our food. Our dependence on Mideast oil and gas could be reduced. New nuclear plant construction would create jobs.

From the standpoint of world wide impact,

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shifting power generation to nuclear by extending plant life and building new plants, would reduce greenhouse gas generation and, hopefully, mitigate global warming, which is probably at least partly responsible for present rapid melting of the global ice caps and glaciers.

Our emphasis on the fear factor has retarded nuclear generation in this country to all our detriment. We have had no genuine nuclear disasters in ths country. Latest nuclear power generation technology virtually eliminates the possibility of disastrous accidents. exaggeration of Three Mile Island is partly to blame for attitude. It was no Chernobyl. It's time we got by that. France, which has become so popular to knock in this country, generates about 80 percent of its electricity by nuclear. It has significantly lower electric rates and has no significant It is time this country reap the huge accidents. potential benefits from nuclear electric generation. Thank you.

FACILITATOR CAMERON: Okay. Thank you very much, Mr. Pielemeier. And we do have a copy of Mr. Pielemeier's comments that we're going to attach to the transcript, so if you're interested in

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looking at them, they will be with the transcript and hopefully, Bill, can we make the transcript available at the libraries, just as we did the other materials?

BILL DAM: Yes.

FACILITATOR CAMERON: Okay. Great. That's terrific. Is there anybody else who - -who wants to talk to us tonight? Any final questions about SAMA's or anything else? Okay. Well, I would thank you for your comments and courtesy tonight. And I'm going to turn it over to Andy Kugler for some final words. Andy?

ANDREW KUGLER: Well, I just want to close by thanking you all for coming this evening again.

If you do have comments on the draft report that you haven't given us here this evening, of if you think of something else later, the comment period runs through December 8th. And as he mentioned, Mr. Bill Dam, he's our principal contact. And you have contact information for him. If you can, before you leave, we - - in the package of information you received, you got a meeting feedback form. We'd appreciate if you could fill that out. We're always looking for ways to do these meetings better to provide you with better information. If you see

1	something we could do better, if you could record it
2	on that form, we'd appreciate it. You can either
3	leave that form in the back or if you if you
4	want to fill it out later, it's prepostage paid and
5	you can just mail it back to us.
6	Finally, I want to mention that the NRC
7	staff and our contractor will remain after the
8	meeting. We can answer any questions, of if you
9	just want to talk about some aspect of this, we'd be
10	happy to do so. Other than that, again, I want to
11	thank you.
12	(At 8:20 p.m., public meeting concluded)
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